DOCUMENT RESUME

ED 055 870 SE 012 523

TITLE Status Report, Teacher Certification.
INSTITUTION Cessna Aircraft Co., Wichita, Kans.
PUB DATE May 71
NOTE 11p.

EDRS PRICE MF-$0.65 HC-$3.29
DESCRIPTORS *Aerospace Technology; *Aviation Technology; *Directories; *Secondary School Science; State Standards; *Teacher Certification

ABSTRACT

The purpose of the report is to assist high school administrators in determining proper qualifications for teaching aviation courses in the different states. The report indicates that states which have had the greatest growth in the number of aviation courses in recent years are those having flexible requirements. Names, titles, and addresses of a contact concerning the requirements are listed for each state. States are listed individually. Specific information about certification for all states and the District of Columbia is given in brief summary form. (Author/TS)

ED055870

STATUS REPORT

TEACHER CERTIFICATION

May, 1971

This is the third annual report on teacher certification requirements which has been issued by the Air Age Education Division of Cessna Aircraft Company.

The purpose of the report is to assist high school administrators and teachers in determining proper qualifications for teaching aviation courses in their state. The report can also help state officials analyze their certification standards compared to other states.

As mentioned in previous reports, states vary widely in certifying teachers for high school aviation courses. If any trend is detected, it is felt that the states which have had the greatest growth in the number of aviation courses in recent years are those states which have flexible requirements. Most states assume that aviation is a science subject although courses are successfully presented in other disciplines.

In addition, states with active aviation education advisory committees reporting to the state department of education have tended to favor more liberal requirements. Special attention is directed to the states of Colorado, Illinois, Kansas, Oregon, New Mexico and Texas for their reasonable but different approaches. Those states that make specific provision for aviation teachers are noted with an asterisk.

All state departments were asked to name a contact concerning the requirements and the names, titles and addresses are included in the following listing.

States are listed individually, and specific information is given in brief, summary form. Information concerning state advisory groups, teacher associations, and other resources within various states are available in separate reports from Cessna.

Air Age Education Division

CESSNA AIRCRAFT COMPANY

SE 012 523

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION
THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

ED023840

Alabama

No specific requirements. Contact:
Mr. J. D. Couch, Science Consultant
c/o Ayers Hall
Jacksonville State University
Jacksonville, Alabama 36265

Alaska

Has adopted the "approved program route" to certification. Certificates will be endorsed in major and/or minor fields. The superintendent of each local district will make teaching assignments, however, a teacher teaching a subject with none or very few hours in that field may jeopardize school accreditation status. Contact: Robert P. Isaac, Assistant to the Commissioner, Department of Education, Pouch F, Alaska Office Building, Juneau, Alaska 99801.

Arizona

No certification for aviation or similar areas. Contact: Mr. Harvey Stern, Deputy Associate Superintendent, State Department of Education, Capitol Building, Phoenix, Arizona 85007.

Arkansas

No certification in the field of aviation education. Teachers of aviation courses are certified in other fields. Contact: Mr. Cecil Shuffield, Director of Secondary Education, Department of Education, State Education Building, Little Rock, Arkansas 72201.

*California

"The Department of Education shall aid and assist local school districts in the development and conduct of a program of aviation education." California State Department of Education, Education Codes Section, Chapter 4, Article 5, Aviation Education.

Most of the high school aviation instructors are holders of the general secondary teaching credential in science, English, mathematics or some other such area. A standard designated subject teaching credential in aviation flight instruction and/or in aviation ground instruction shall be granted to an applicant who submits a complete application and has obtained a valid flight and/or ground instructor's certificate issued by the Federal Aviation Administration with the appropriate rating for each subject to be listed on the credential according to California Education Code and Administrative Code, Title 5.

Contact: Mr. W. Earl Sams, Consultant in Secondary Education, Bureau of Elementary and Secondary Education, California Department of Education, 721 Capitol Mall, Sacramento, California 95814.

*Colorado

Colorado will endorse a certificate only in the "major" field. Teachers for air age education classes are drawn from certificated personnel who have gone through available courses, workshops, seminars; or those who hold valid pilots, ground school, or other aviation licenses.

In some instances, specialists from other disciplines, career men, selected fixed base operators, or pilots are brought in to teach some portions of the classes. Colorado has a type of provisional permit in Type I, Letter of Authorization, Recognized Expert, which would permit employment of such a person. Contact: Mr. Robert M. Little, Director, Unit of Information Systems and Certification, Colorado Department of Education, State Office Building, Denver, Colorado 80203.

Connecticut

There is no certificate requirement for aviation education, since the courses are offered by teachers of social studies, general science, earth science, or physics. Wherever such a course is offered the teacher would be expected to have a broad background in such studies as are implied by these endorsements on his secondary school certificate. Contact: Dr. Peter L. LoPresti, Chief, Bureau of Teacher Preparation and Certification, Box 2219, Hartford, Connecticut 06115.

Delaware

Delaware has no specific certification requirements in this area. Courses would be taught by teachers of science, math or social studies, depending on the particular aspect of the course involved. Dr. Howard E. Row, Assistant Superintendent, Auxiliary Services, and Dr. Elizabeth L. Lloyd, Director, Teacher Education and Professional Standards, Department of Public Instruction, Dover, Delaware 19901.

District of Columbia

Board of Education rules for teachers of aviation call for the regular senior high school teaching requirements plus certification of having qualified for and held a private pilot's license, or a military pilots rating, or an official ground instructor's rating for teaching civil air regulations, navigation, meteorology, aircraft and engines; recognition to be taken of any revocation or suspension of pilot's license by a qualified authority. Contact: Soloman J. Kendrick, Chief Examiner, District of Columbia Public Schools, 415 12th St., N.W., Washington, D. C. 20004.

*Florida

A teacher to be eligible to teach a 1/2 to 1 year course in aviation must be certified in the field of science at the secondary level. Principals require teachers to have aviation experience as well. Contact: Mr. Jack M. Hopper, Science Consultant, Room 311, Knott Building, Department of Education, Tallahassee, Florida 32304.

Georgia

No certification in the subject field of aviation. Contact: Dr. Claude M. Ivie, Director, Division of Curriculum Development, Georgia Department of Education, Room 208, Education Annex Building, Atlanta, Georgia 30334.

Hawaii

No teacher certification requirements in the subject field of aviation education. Contact: Mr. Eugene H. Yamamoto, Administrator-Employment, State of Hawaii, Department of Education, Office of Personnel Services, P. O. Box 2360, Honolulu, Hawaii 96804.

Idaho

No qualifications adopted for the teaching field of aviation education for secondary teachers. Contact: Mr. Francis H. Rist, Program Administrator-Secondary Education, Department of Education, Statehouse, Boise, Idaho 83707.

*Illinois

Aviation/Aerospace Education

1. General Aviation and/or Aerospace Education
   a. Completion of an approved aerospace educational workshop course.
   b. Five hours of flight orientation or familiarization within the last five years. This flight experience does not need to be as a member of a flight crew.

   If the material that is being taught is strictly sociological in nature, the flight orientation requirement may be minimal. If the material that is being taught emphasizes astroscience, the teacher should have at least one college course in astronomy.

2. Aviation Science Course (based upon a preflight course leading to completion of the FAA private pilot's written examination).
   a. A valid FAA private pilot's license or higher OR
   b. A valid FAA ground school instructor's certificate and ten hours of flight orientation or familiarization in the general aviation catagory aircraft within the last five years. This flight experience does not need to be as a member of a flight crew.

Contact: Dr. Earl W. Morris, Director, Department of Curriculum Development, 325 South Fifth Street, Springfield, Illinois 62706.

Indiana

No specific licensing pattern for aerospace education teachers since the educational area is new, low number of qualified teacher positions and teachers themselves. It is felt that any licensing patterns should be supplimentary to permit a continuing school aerospace program despite teacher changes. Contact: Warren G. Helm, Supervisor, Aerospace Education, Statehouse, 401, Indianapolis, Indiana 46204.

Iowa

"Air education programs offered at the secondary level (high school and community college) which involved public school teachers would need to be certified to teach in the subject matter field of aviation education." Contact: Mr. Howard R. Hammond, Consultant, Teacher Education-Vocational, Department of Public Instruction, Des Moines, Iowa 50309.

Kansas

Eighteen semester hours distributed as follows: Aerospace Education (principles of flight, history of flight, navigation, meteorology, etc.) 6 semester hours. Elective courses: 12 semester hours selected from such courses as visual education, sociology, economics, psychology, business education, industrial arts, mathematics, science.

Aerospace education may be included in qualifying for a high school diploma in one of the following fields: Social science, industrial arts, business, mathematics, and science provided the subject matter is so designed that it is appropriate to the classification in which credit is awarded and the teacher qualified to teach this subject in that field. Contact: Mr. Jay J. Scott, Driver and Aerospace Education, State Department of Education, 120 E. 10th, Topeka, Kansas 66612.

Kentucky

Kentucky has no major or minor in the field of aviation. Contact: Mr. Wendell Cave, Science Consultant, Kentucky Department of Education, Frankfort, Kentucky 40601.

Louisiana

Louisiana does not add teacher certification for the field of aviation. Science certification is the closest to certification as a teacher of aviation. Contact: Dr. James DeLee, Director Teacher Education, Certification and Placement, Louisiana Department of Education, Baton Rouge, Louisiana 70804.

Maine

No provision at this time. Contact: Mr. Robert Hasenfus, Director of Driver Education, Department of Education, Augusta, Maine 04330.

Maryland

No requirements in the area of aviation education. The subject does appear as a part of the science and mathematics programs as offered in the secondary schools. Contact: Mr. John C. Metzger, Specialist in Certification, State Department of Education, State Office Building, 301 West Preston Street, Baltimore, Maryland 21201.

Massachusetts

No specific certification in aviation. A teacher certified in physics or general science with training experience in aviation might teach this subject. Contact: Mr. David Fitzpatrick, Acting Director, Bureau of Teacher Certification, Department of Education, 182 Fremont Street, Boston, Massachusetts 02111.

*Michigan

A teacher in Michigan is required to satisfy minor credit requirements in a subject field in order to teach aviation. This requirement entails some 20 semester hours, available from Western Michigan University. Contact: Dr. Leon Waskin, Deputy Associate Superintendent, Bureau of Education Services, Michigan Department of Education, Lansing, Michigan 48902.

Minnesota

No specific teacher certification for aviation. Such courses would be taught by qualified science teachers, perhaps in earth science or physical science. Contact: Dr. E. Raymond Peterson, Assistant Commissioner of Education, 550 Cedar Avenue, Capitol Square Building, St. Paul, Minnesota 55101.

Mississippi

No provision in aviation education. Contact: Dr. Russell J. Crider, Superintendent Teacher Education and Certification, State Department of Education, Jackson, Mississippi 39205.

Missouri

No established requirements for teacher certification in the subject field of aviation at secondary level. Contact: Mr. Leslie L. McDaniel, Director of Supervision, Missouri Department of Education, Box 480, Jefferson City, Missouri 65101.

Montana

No endorsement requirements in the subject field of aviation. It is felt that until more colleges offer teaching majors or minors in aviation education, an endorsement ought not to be required. Certified teachers with aviation experience teach such courses. Contact: Mr. Duane Jackson, Supervisor of Aviation Education, Department of Public Instruction, Helena, Montana 59601.

Nebraska

No specific references to the subject field of aviation. Contact: Mr. Royal Henline, Curriculum Development Director, Nebraska Department of Education, Lincoln, Nebraska 68509.

Nevada

Being a certified science teacher is the main criteria for teaching aviation and related subjects in Nevada at this time. Contact: Mr. Jack O'Leary, Science Consultant, Nevada Department of Education, Heroes Memorial Building, Carson City, Nevada 89701.

New Hampshire

No certification endorsement in the area of aviation and/or aeronautics. Any teacher or school district planning to offer such a course should contact the Consultant in Science Education. Contact: Mr. William B. Ewert, Consultant Science Education, Department of Education, State House Annex, Concord, New Hampshire 03301.

New Jersey

There are no teacher certification requirements for the subject field of aviation. The New Jersey Secondary School Administrators Association has a standing committee on air space education. Contact: Dr. Allan Rosebrock, Director-Teacher Education and Certification, State Department of Education, 225 W. State Street, Trenton, New Jersey 08625.

New Mexico

Certification in aviation education is not resolved in New Mexico. Individual school's programs are approved on merits of each case. The policy is liberal. General requirements call for 18 semester hours in subject area, and 5 semester hours in the specific course. They are interested in having something concrete, yet realistic, adopted. Contact: Mr. B. K. Graham, Science Specialist, Department of Education, Capitol Building, Santa Fe, New Mexico 87501.

New York

The Bureau of Trade and Industrial Education is responsible for 3-year trade programs on the high school level. No short-term survey type courses in aviation are operated by the Bureau. Unable to get information on academic requirements. Contact: Mr. Edward A. Shattuck, Associate in Industrial Education, Bureau of Trade and Technical Education, State Education Department, Albany, New York 12224.

North Carolina

No teacher certificates issued in the field of aviation, however, mention was made that the study of aviation could fall under different curriculum areas. Contact: Mr. Paul H. Taylor, Director-Division of Science Education, State Department of Public Instruction, Raleigh, North Carolina 27602.

North Dakota

No provision for certification in aviation education exists in North Dakota. The state superintendent has issued a bulletin entitled "Aerospace Education" prepared by the Division of Instruction which specifically supports the place of aerospace curriculum instruction in the elementary and secondary grade levels. Contact: Mr. M. F. Peterson, Superintendent, Department of Public Instruction, Bismarck, North Dakota 58501.

*Ohio

A teacher must have, in addition to general and professional requirements for secondary teachers, at least 15 semester hours or 23 quarter hours of university credits verified on an official transcript of credits as aviation-related subjects. As of January 1, 1972, a minimum of 20 semester hours or 30 quarter hours will be required and will supersede the 15 semester hours currently required. Contact: Mr. Doyle K. Shumaker, Chief of Secondary Education, Department of Education, Room 606, Ohio Departments Building, 65 South Front Street, Columbus, Ohio 43215.

*Oklahoma

"The preparation of the teacher shall include a minimum of 18 semester hours in science and/or mathematics which includes at least 8 semester hours in physics with a college course in aeronautics. A private pilot certificate or a basic ground instructor certificate issued by Federal Aviation Administration may be substituted for the 8 semester hours of physics and college course in aeronautics." Contact: Mr. Ronald Carpenter, Administrator, Teacher Education and Certification, State Department of Education, Room 110, Capitol Building, Oklahoma City, Oklahoma 73105.

*Oregon

There is no teacher certification, as such, but they approve course in Oregon schools if:

1. An approvable course outline is submitted.
2. The teacher's background in aviation is acceptable.
3. The course meets an apparent need of the students of the school and of the community.

The Oregon Board of Education, Division of Community Colleges and Career Education, has issued a study entitled "The Feasibility of Oregon Community Colleges and Secondary Schools Offering Civil Aviation Occupational Education" which analyzes and endorses a curriculum offering in aviation at the elementary, secondary and community college levels available in limited supply. Contact: Mr. Robert L. Houck, Administrative Assistant, Division of Community Colleges, Career Education, and Instructional Technology, Oregon Board of Education, 942 Lancaster Drive, N.E., Salem, Oregon 97310.

Pennsylvania

No specific requirements. Recommend teacher to be fully certified in a related field and have more than a passing interest in aviation. Plan to require within two years an FAA ground instructor rating and as soon as feasible six college credits in aviation education. This will depend on colleges setting up courses in this instruction area. We also recommend the secondary teacher hold a private pilot's certificate but do not require it at this time. Contact: Dr. John E. Kosoloski, Director, Bureau of General and Academic Education, Pennsylvania Department of Education, Box 911, Harrisburg, Pennsylvania 17126.

Rhode Island

No certification standards dealing specifically with aviation education. Contact: Mr. Thomas H. Sandham, Jr., Associate Director for Vocational Education, Department of Education, Roger Williams Building, 25 Hayes Street, Providence, Rhode Island 02908.

South Carolina

No specific certification for aviation teachers or courses. Contact: Mr. John F. Maynard, Supervisor, Office of Teacher Education and Certification, Department of Education, Columbia, South Carolina 29201.

South Dakota

South Dakota does not provide certification for secondary teachers in this general area. In the cases when such courses are taught, the teaching is done by secondary trained teachers in their fields. Contact: Mr. Jack Pier, Director, Teacher Education and Certification, Department of Public Instruction, Pierre, South Dakota 57501.

*Tennessee

"Aeronautics: The applicant shall offer a minimum of 18 quarter hours credit in aeronautics. The hours shall include civil air regulations, navigation, meteorology, theory of flight, engines, communications, aircraft familiarization, social, geographic, and economic implications of aviation, and flight instruction." Contact: Mr. A. B. Cooper, Director, Teacher Training and Certification, State Department of Education, Nashville, Tennessee 37219.

*Texas

Aerospace Education I and II
- A. Six semester hours of aviation/aerospace education workshop or course OR
- B. Private pilot license or higher OR
- C. Basic Ground Instructor License or higher

Aerospace Education III and IV
- A. Private pilot license or higher OR
- B. Basic ground instructor license or higher OR
- C. Six semester hours of aviation/aerospace education workshop or course and verified actual operational experience in:
  1. Air Traffic Control and/or
  2. Aircraft operation as a required flight crew member

Contact: Mr. C. S. (Bill) Story, Program Director for Science, Division of Program Development, Texas Education Agency, 301 E. 11th Street, Austin, Texas 78701.

Utah

Utah accredits teachers by two types of teaching certificates, basic professional and professional. These are based on approved teaching majors and minors. Utah State Board of Education, Division of Teacher Personnel, 1300 University Club Building, Salt Lake City, Utah 84111. Contact: Dr. Ferrin D. Van Wagoner, Coordinator of Secondary Education, Utah State Board of Education, Division of General Education, 1400 University Club Building, Salt Lake City, Utah 84111.

Vermont

No specific requirements at this time. Instructors of courses presently being offered are certified in science and have received flight training. Contact: Cola D. Watson, Director, Division of Vocational-Technical Education, State Office Building, Montpelier, Vermont 05602.

Virginia

Virginia does not include an endorsement for the teaching of aviation education. Units in aviation education are often taught in connection with a regular science course. Contact:

Mr. A. Gordon Brooks, Director, Division of Teacher Education, Department of Education, Richmond, Virginia 23216.

Washington

No specific certification for teachers of aviation or aviation courses. Contact: Dr. Wendell C. Allen, Assistant Superintendent, Teacher Education and Certification, Department of Public Instruction, P. O. Box 527, Olympia, Washington 98501.

West Virginia

No provisions are made for endorsement in subject field of aviation. Teacher requirements would depend upon whether course was taught as a science or a social study. Contact: Mr. Thomas J. McGinnis, Jr., Certification, West Virginia Department of Education, Charleston, West Virginia 25301.

Wisconsin

No special certification for teachers in the subject field of aviation education at the secondary level. There are courses in aviation being taught in Wisconsin by science teachers. This does not, however, imply that aviation education is considered to be mostly correlated with the teaching of science in spite of the fact that science topics may be included. The State Superintendent has instructed the Wisconsin Aerospace Education Committee to make evaluation and recommendations in school curricula. Contact: Dr. William Ernst, Department of Public Instruction, 126 Langdon Street, Madison, Wisconsin 53702.

*Wyoming

State Board approval for the addition of aviation education as an accredited elective in the public schools was obtained in 1966. Minimum requirements for teacher certification (in aviation): (1) a valid Wyoming teaching certificate endorsed for science and/or mathematics with at least 3 semester hours of credit in aviation education; or (2) a valid Wyoming teaching certificate and private pilot license in lieu of the science-math requirements. Contact: Mr. Roger Abelson, Science Consultant, Wyoming Department of Education, Capitol Building, Cheyenne, Wyoming 82001.